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	INFORMATION	REPORT
COUNTRY	USER	DATE DISTR. 1 Sept 1954
SUBJECT	Evaluation of (a) Two Issues of Arc Pathology; (b) One Issue of Physiol	hives of NO. OF PAGES 5 ogical Journal
PLACE ACQUIRED	50X1	NO. OF ENCLS. (LISTED BELOW)
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THIS DOCUMENT CONT OF THE UNITED STAT AND 794, OF THE U. LATION OF ITS CONT PROHIBITED BY LAY.	AINS INFORMATION AFFECTING THE NATIONAL DEFENSE ES, WITHIN THE MEANING OF FITLE 18, SECTIONS 793 S. COCT, AS AMENDED. ITS TRANSMISSION OF SEVE- ENTS 10 OR RECEITS BY AN UNGUITHOUSE OF PESON IS THE REPRODUCTION OF THIS FORM IS FROMISITED.	THIS IS UNEVALUATED INFORMATION
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	T. Fiziologicheskiy Zhurnal SSSR in XXXXX, No 6 (November December	n <u>I M Sechenova</u> , Vol 1953)
	III. <u>Arkhir Patologii</u> , Vol XV, Nos 2 July-August 1953	and 4 (March-April and
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tern	Prior to World War II, Soviet med ed on the German style, that is they	
are ance stri ple,	now, and the material in each article with German practices. Nowadays, ho kingly similar to their US counterpar been a very marked improvement in the and the organization and layout of	e was presented in accord- owever, Soviet journals are rts. There has, for exam- ne quality of the paper
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show US influence. Apparently a great effort has also been made to improve the quality of the illustrations in Soviet journals, which were formerly always very poor. This effort has not been entirely successful, particularly in the case of x-ray plates.

I. - FIZIOLOGICHESKTY ZHURNAL SSSR

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metric pressure and resultant lack of oxygen on the bodies of animals and humans. These articles may be of some interest from the point of view of aviation medicine. In this particular journal is an article by V N Zvorykin. (This name incidentally is a name which was common among the old nobility.

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this article the author summarizes his experiments which dealt with the influence of lack of oxygen on the central nervous activity. He concludes that the cerebral cortex under these conditions shows a certain impairment in its function. In particular it shows some weakness in its leading role in the functional unification of the body. As a result, he continues, vegetative reactions also showed many changes under these conditions as well as did behavior patterns and the ability to work. This is true in both men and animals. At the same time the author states that the cerebral cortex may play a certain part in the adjustment of the body to changed conditions of environment; namely, specifically in this case, lack of oxygen.

- 3. This same question is discussed by I R Petrov in the March-April 1953 issue of Arkhiv Patologii, which will be discussed in further detail below. In his article Petrov furnishes a detailed summary of Soviet scientific contributions concerned with lack of oxygen or hypoxia. He pays particular attention to the adjustment processes and the complex question of hypoxia therapy. He believes that the effects of the oxygen administered may be magnified by the administration of other drugs, especially by narcotics such as urethane or barbiturates. He also believes, however, that vitamins and glucose are valuable in this way. Petrov's article furnishes a rather large bibliography on this general question.
- 4. To return to the FIZIOLOGICHESKIY ZHURNAL, following the initial article on oxygen deficiency there are a number of specialized articles. Among these the following:
 - a. Reciprocal or Antagonistic Innervation of the Muscles (L V Donskaya):
 - b. Reflectory After-Activity of the Nervous Centers of the Spinal Cord (D P Matyushkin);
 - c. Optimum and Pessimum in Artificial Stimulation of the Isolated Heart (G Ya Priyma);
 - d. Secretory Activity of the Stomach after Excision of the Solar Plexus (R I Safarov);
 - e. Biochemical Characteristics of Atrophied Muscles.

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these articles appear to describe work which is as good as that done anywhere, including that done in the US.)

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- 5. Following these articles is a section on Methodology, which contains a lot of short articles concerned with various methodological recommendations. Such highly specialized techniques as the precise registration of the tone of the bronchial muscles and the recording of the movements of the uterus in the dog are covered in this section.
- 6. Two books are reviewed in the book section of this issue. The first of these is a book by M V Sergiyevskiy entitled THE RESPIRATORY CEN-TERS OF HIGHER ANIMALS. This book is reviewed by P N Veselkin.
 This is a rather long review but is unbelievably bad. It reads like Marxist scholasticism. One wonders in reading the review what kind of mistabes Sergiyevskiy made to merit this kind of attack.
- 7. In contrast, the other review is a very reasonable one. The review is of a book by B V Efimov entitled BIOPHYSICS FOR THE PHYSICIAN. The reviewer is N T Fedorov. The reviewer is critical of the book but understandably so, since he cites a number of very obvious defects in it, such as mistakes in formulae. His criticism is quite understandable to any reader and unlike the preceding review does not involve politics.
- 8. Toward the end of this particular issue is found a resolution concerning the scientific activities at the Institute of Physiology of Domestic Animals, presumably in Moscow. This resolution is typical Soviet propaganda
- 9. Finally on page 759 is a report on a conference concerned with the physiology of manual work and sport considered, of course, in the light of Pavlov's theories. Unfortunately the report is very short and presumably the material discussed in it will be published later in extended form, since the material discussed is of some interest. The reporter mentions that there are three phases in any sport, namely: learning, stabilization of achievement, and automatization of activity.
 - II ARKHIV PATOLOGII, Vol XV, No 2, March-April 1953
- 10. In addition to the material on oxygen deficiency discussed above, this particular issue has a number of items which may be of interest. There are for example two articles concerned with the mechanism and treatment of acute hemorrhagic and traumatic shock. The first of these articles is by K A Trofimov: the second, by A V Miller and Z I Burtseva. blood transfusion is widely used in the treatment of this condition and the authors concerned have attempted to compare its effects with those of the transfusion of a number of special fluids, namely, "ferrofusin," "Sel'tsovskiy's fluid," "Petrov's fluid," and "Fedorov's fluid." Unfortunately these fluids are not otherwise identified but they may very well be blood substitutes or blood extenders,
- 11. In addition to these articles this particular issue consists largely of special articles, including the following:
 - a. Primary Tumors of the Serosa Layers (D I Golovin);
 - b. Changes in the Synaptic Apparatus of the Autonomic Nervous System in Acute and Chronic Diseases (D Yu Guseynov);
 - c. Biochemical Characteristics of the Brain after Clinical Death and after Recovery from This Condition (M I Shuster).

In addition to these there are a number of other articles of this highly specialized nature.

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